

sub 1 Pro DC DP Dual Program Waterproof Controller

INSTALLATION INSTRUCTIONS

Mount the controller on the wall, using the wall mount bracket or on the valve, using the valve mounting bracket. Connect the solenoid wires to the controller.

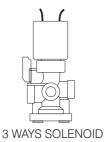
Connect RED from solenoid to RED from controller and the same for the BLACK wire.
Use the WaterProof Crimp Connectors to make the connections.

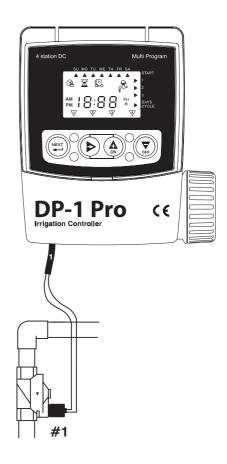
Connect the wires FIRST before installing the battery!

When battery is connected the controller checks the valves position to make sure they are closed!

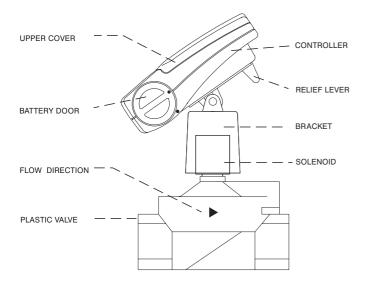
9 VOLT VALVE

A 9 volt, pulse operated solenoid must be used with this controller. It is also refer to as: 9 volt Latching solenoid The solenoid could be 2 ways or 3 ways, with 2 wires with different colors (like Red & Black)

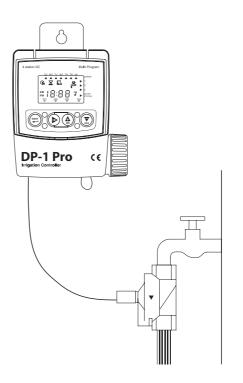




CONTROLLER MOUNTED ON THE VALVE



CONTROLLER MOUNTED ON THE WALL



THE CONTROL PANEL





THE CONTROL BUTTONS



"NEXT STEP"-Advance to next programming step.



Advance Days & Station No. In watering time position will lead you to % scaling.



Increase TIME & Watering Time. Used also as "ON" for Days ON and Manual ON.



Decrease TIME & Watering Time. Time. Used also as "OFF" for Days OFF & Manual OFF. Copy program from previous valve.

DISPLAY ICONS



Set current TIME & DAY



Watering duration time



Irrigation Days ON / OFF



Manual or Semi-Auto

AUTO Automatic operation



Rain Sensor



RAIN OFF - no watering



Station No. Icon



Low Battery (flashing)

BATTERY CONNECTION

Please make sure that your 9 volt battery is an ALKALINE battery of good quality.

Under normal use, the battery should last for one irrigation season.

Low battery indication will start flashing when battery is low. Replace battery.

STEP 1

Turn the battery cover counterclockwise



STEP 2

Pull the battery cover



STEP 3

Insert a 9 volt ALKALINE battery with + facing the front panel

STEP 4

Close the battery cover back to it's position. Turn clockwise to it's original position

IRRIGATION PROGRAM FOR PROGRAM I

Irrigation program consists of 3 parameters:



1 Watering duration for station 2 Irrigation Days 3 Program Start Time

PROGRAMMING STEPS

NOTE If you press 🛧 or 😾 continuously, the digits will advance quickly.

SET TIME/DAY After connecting the battery, the controller should display the "SET TIME/DAY" Icon.

If not, Press (NEXT) until it is displayed.

Press until arrow points to current day.

Press + or $\overline{}$ to set current time.

Press (NEXT) to enter the watering time.

WATERING TIME Enter Watering Time to the station.

Press \bigwedge or $\overline{\ }$ to set the watering time.

Press (NEXT) to advance to next programming step.

You can either select the days of the week you wish to water or select days cycle.

DAYS ON/OFF Arrow under SU is flashing.

PI 7 Press 4 for the days you wish to water.

OR Press

√ for the days you wish to skip irrigation.

DAYS CYCLE

To set the number

Press

→ until arrow points to days cycle.

of days between Press \checkmark + or \checkmark to select your days cycle. watering

Notice that two sets of digits are displayed (0 0).

The right digit will display the selected days cycle while the left digit will display the remaining days to irrigation.

If 1 is selected = Every day, 2 = Every other day, 3 = once every 3 days and so on.

Press if you wish to return to "days of the week".

Press to program the start time.

START 1 | 2 | 3 Press ♠ or ▼ to set the time. (Notice the AM & PM)

To set watering

Start Time(s). Press (set next (2nd) start time.

LOOP PROGRAM - ONLY IN PROGRAM 2 (II)

PII - There are two options as follows:

PII OPTION A - Work according to the sensor:

Connect the orange wire to the sensor and program the irrigation time (in seconds/minutes) and the interval between the openings in minutes/hours. The unit will irrigate only when the sensor allowes it.

NOTE - The sensor Loop wire must be connected through the sensor.

PII OPTION B - Work in a Loop:

Program the watering time in seconds/minutes, the watering days, and the 3 start time:

START 1: The time to start the "LOOP"

START 2: The time you want to end the "LOOP"

START 3: The interval between openings in minutes/hours.

NOTE - The sensor Loop wire must be disconnected (Shortened).



NOTE 1. To get to MANUAL mode from any position, Press (NEXT) continuously.

2. A delay of 2-3 seconds between pressing ON and OFF if the actual response of





MANUAL

Two MANUAL modes are available:



Manual start per station I (Only that station)

Press /+\ to open the station. (Station icon will stop flashing)

to turn off the station.

Press > to select your next station. (IT 2,4 DC-WP)

If you leave the station ON, it will close after it's programmed watering time.

First priority is watering time program 1, 2nd priority is watering time program 2, and if no watering time was programmed, will open for 2 minutes.

After the station is closed, the controller will skip to AUTO mode.

the valve was designed to save energy.

Press (NEXT) to select next manual mode.

Manual start per program II

The programmed station in this program will flash.

Press \uparrow to start the cycle and $\overline{}$ to terminate it.

Press (NEXT) to select program 2, repeat as in prog.1.

Press (NEXT) to advance to AUTO RUN mode.

AUTO

PΙ

Will display Time & Day, open station, power failure and OFF.

in AUTO mode to stop irrigation.

Press /+ in AUTO mode to resume irrigation.

WATER BUDGET

When you wish to either increase or decrease watering time for Program I you can do it by using the Percentage Scaling method.

Your current setting of WATERING TIME represent 100%.

You can increase your watering time in increments of 10%, ie, 110%, 120% and up tp 200%.

200% will double your current watering time.

You can decrease your watering time in increments of 10%, ie, 90%, 80% and down to 10%.

50% will reduce by half your current watering time.

You can get to WATER BUDGET position from any "WATERING TIME"

Press - until you pass all station and display show 100 and the active stations in that program are flashing.

Press \uparrow to increase and $\overline{}$ to decrease the precentage.

EX: If stations in PI are set to 10 minutes runtime and you increase percentage to 150%, they will now run 15 minutes each. (The new 100%)

Press (NEXT) to skip to MANUAL mode.

IMPORTANT INFORMATION



- The (NEXT) button leads you through the programming steps.
- Auto Return: If within 3 minutes you do not touch any button, the controller will automatically return to Auto mode except from MANUAL mode.
- Quick Digit advance: If you Press 🛧 or ∇ continuously, the digits will advance quickly.
- Reset display back to OFF: If you press and simultaneously and hold for few seconds, the digits displayed will reset back to OFF.
- Program Erase Total Reser: In Auto Run mode, press all 4 buttons, simultaneously until all elements of the display will appear.

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